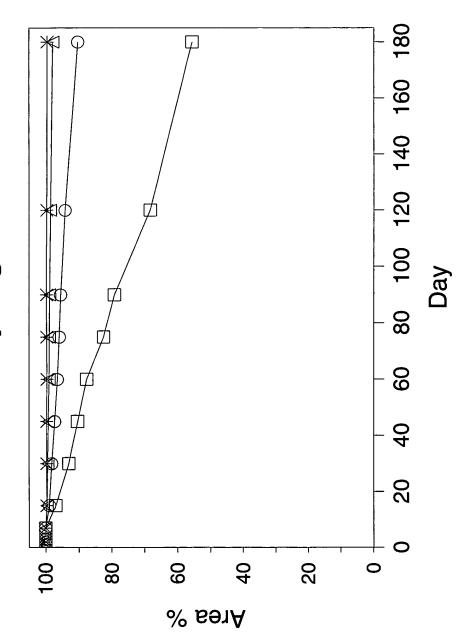
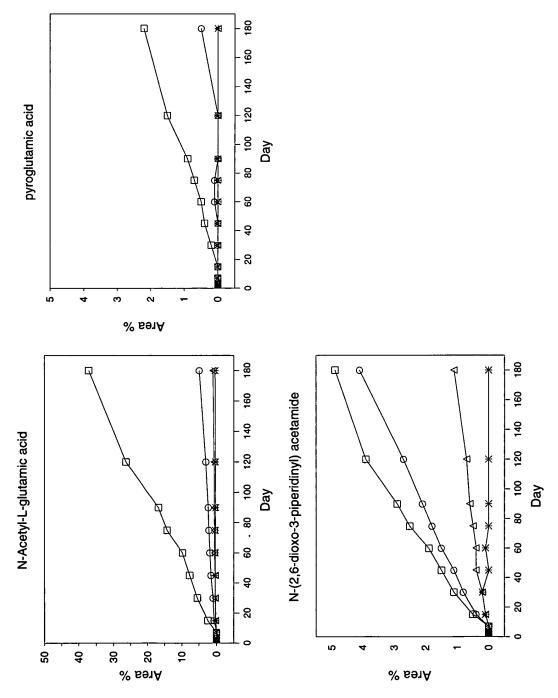
# N-Acetyl-L-glutamine

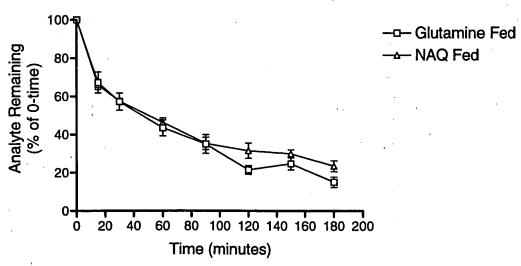


from pH 2 to 8): (?) pH 2.0; (o) pH 3.0; (△) pH 4.0;? (∗) pH 5.0 to pH 8.0 (all values are the same for pH 5.0 to pH 8.0 Figure 1: Aqueous stability of N-acetyl-L-glutamine at various pH (ambient temperature, in 1 pH unit increments



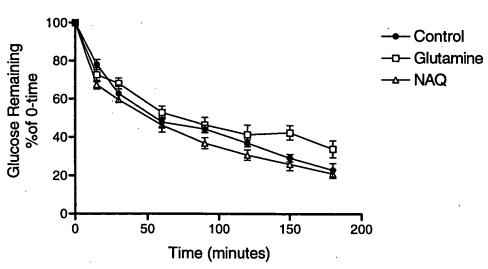
(ambient temperature, in 1 pH unit increments from pH 2 to 8): (?) pH 2.0; (o) pH 3.0; (△) pH Figure 2: Degradation products of N-acetyl-L-glutamine in aqueous solution at various pH, 4.0;? (\*) pH 5.0 to pH 8.0 (all values are the same for pH 5.0 to pH 8.0 samples).

### Gin or NAQ in Isolated Loop



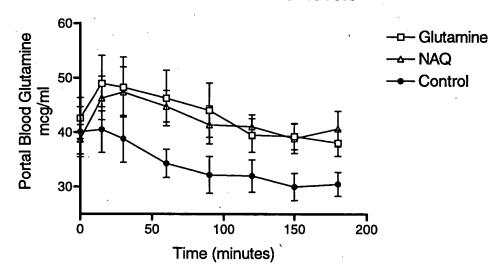
No significant difference between Gln or NAQ - t1/2 ~ 45 minutes.

### Isolated Loop - Glucose Clearance Data



Glucose clearance from isolated intestinal loop. There was no significant difference between groups, and t1/2 is approximately 60 - 90 minutes.

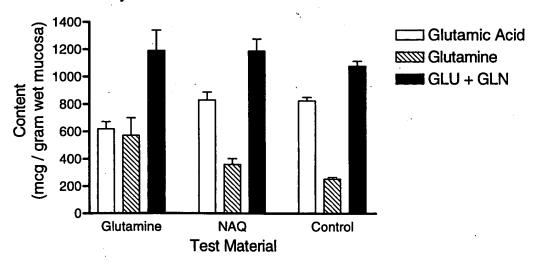
# Isolated Loop Portal Blood Glutamine Levels



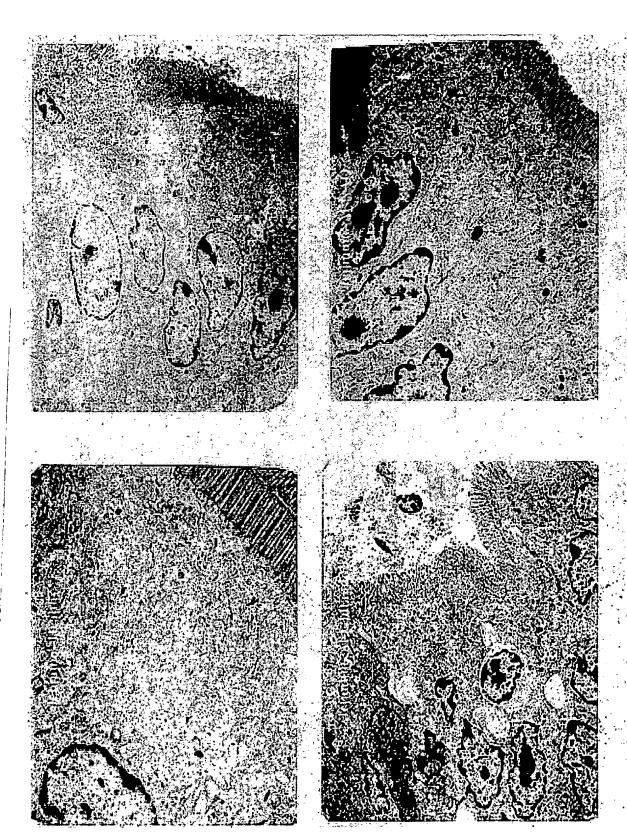
Portal blood glutamine levels are not different whether glutamine or NAQ is placed in the isolated intestinal loop. Both are different from the control (no added glutamine source).

(')

## Isolated Loop Jejunum Mucosal GLU and GLN



Isolated Loop - Total mucosal glutamine and glutamate analysis. Incubation with NAQ or Gln results in similar retention of GLN+GLU in the mucosa. NAQ does not produce as high a GLN content in the mucosa as GLN, but NAQ does prevent the loss of GLU content observed with GLN. Both GLN and NAQ are identical in supporting a slightly elevated mucosal content of GLN+GLU compared to control.



Electron transmission micrographs of enterocyte cytoplasm from healthy and mainourished pigs. Mainourished pi